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Tel No: 080- 22252128
Email: gmqs@bescom.co.in

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¸ÀASÉå: ¨É«PÀA/©¹-35/¥ÀæªÀå(«)/UÀÄ,¥Àæ&¸ÀÄ/G¥ÀæªÀå-3/¸À¥ÀæªÀå-1/2024-25/

TECHNICAL SPECIFICATION FOR PETROL POWERED HEAVY DUTY CHAIN SAW (Motorized)

1) SCOPE:

This technical specification covers design and supply of Chain Saw (Motorised) extremely robust and long lasting chain saw, highly suitable for cutting fire wood thinning shrubs and shaping trees.

2) THE TECHNICAL REQUIREMENTS:

Sl.No.	PARAMETER	SPECIFICATION REQUIRED
1	Engine	Single Cylinder 2 Stroke petrol driven, Air cooled
2	Displacement	80 to 95 CC
3	Crank shaft	3 Piece Crankshaft design to ensure better durability and weight balance.
4	Crank case	Magnesium crank case, Sturdily built crankcase withstands high rpms and tough professional use, ensuring a long service life.
5	Power output	5.0 HP/3.74KW or more
6	Racing speed lower limit	More than12000 RPM
7	Fuel tank capacity	700ml to 800ml and Tank location bottom side and non-breakable plastic
8	Dry weight (without cutting attachment and fuel)	Not More than 6.2 Kg. to 6.8kgs
9	Guide bar length	450mm to 500mm
10	Guide bar and chain	Should have same manufacture only
11	Chain type	Carbide tipped chain with 3/8 inch Pitch (±10) with heavy duty tie straps and tempered rivets.
12	Chain lubrication system	Fully automatic ,speed controlled rotary oil pump
13	Chain oil tank capacity	400 ml to 500ml
14	Chain tensioning	Side Access Tensioning
15	Clutch	Inbound Metal Clutch Shoe lining for slim design and better maneuverability

Sl.No.	PARAMETER	SPECIFICATION REQUIRED
16	Air filter	Dual Air filter Design with 80 Micron Felt Filter
17	Ignition	Ignition system should be electronic with preferably one button start up.
18	Lubrication system	Fully automatic and adjustable chain lubrication system.
19	Safety features	**1.** Must include an automatic chain brake and overload protection to enhance safety during use. **2.** Protective carry case for blade to be supplied with the machine.
20	Anti-vibration system	Must equipped with an anti-vibration system to reduce operator fatigue during the prolonged use.
21	Vibration Level m/s2 (front handle)	Not more than 6 m/s2
22	Vibration Level m/s2 (Control handle)	Not more than 7 m/s2
23	Guaranteed Sound Power Level (Db/A)	Not more than 120dB(A)
24	Attachments & Compatibility	Machine should be compatible & supplied with 3 additional chain, 1Ltr 2T oil,1 Ltr Chain oil and Sharpening kit. These items should have same manufacturer only.
25	Spare Availability	Declaration should be given on OEM letterhead for 10 years of spare availability from date of purchase.
26	Specification	Specification should be submitted on OEM letterhead
27	Service center	OEM Authorized Service center should be in major place in BESCOM Jurisdiction Declaration should be submitted on OEM Letterhead
28	Certification	Should be certified with CE or TUV.

3. PACKAGING:
Packaging must include the chain saw unit, 3 spare chains, maintenance tools and a user manual.

4. WARRANTY:
Warranty shall be 18 months from the date of supply for manufacturing defects.

5. SERVICE: One free service camp at consignee place after 1 year of purchase.

6. INSPECTION:
All 10% sampling tests as stipulated as per above technical requirements & Drawing shall be carried out by the supplier in the presence of purchaser's representative. Only on getting the inspection report to the effect that the inspection was carried out satisfactorily, dispatch clearance shall be issued. The supplier shall give minimum 10 days advance intimation to the

PURCHASER to enable them to depute their representatives for witnessing the tests.

100% Inspection of materials shall be done before supply of material to stores by the BESCOM representatives to inspect the materials as per above technical requirements to ascertain the quality.

7. MARKING & NAME PLATE:

Each Manufacturer name and address

i) Owners Identification "**BESCOM PROPERTY"**
ii) Purchase order reference
iii) Manufacturers name & Trade mark
iv) IS No.

8. DESPATCH:

The Supplier shall commence only after the sample is approved. Further the manual containing operation, maintenance of the equipment/components shall be supplied along with packing.

9. PACKING & FORWARDING:

The equipment shall be packed suitably. The supplier is responsible for any damage to the equipment due to improper and inadequate packing. The contractor without any extra cost shall supply any material found short without any extra cost.

General Manager (El.)
Quality Standards and Safety, BESCOM